

Material Safety Data Sheet for GP Carbon Zinc batteries

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IDENTITY (As Used on Label and List) Carbon Zinc	Note: Blank spaces are not permitt marked to indicate that.	red if any item is not applicable or no information	is available, the space must be
Section I			
Manufacturer's Name GPI International Ltd.	Emergency Telephone Number		
Address (Number, Street, City State, and ZIP Code) 8/F GP Building, 30 Kwai Wing Road,	Telephone Number for information	852-2484-3333	
Kwai Chung, N.T. H.K.	Date of prepared and revision Sep 8, 2011 Signature of Prepare (optional)		
Section II - Hazardou	 us Ingredients / Identity	Information	
Hazardous Components:	<u>g</u>		
Description:	Approximate % of total weight		
Lead	: <0.2	Wt%	
Mercury	: <00001	Wt%	
Cadmium	: <0.001	Wt%	
Section III - Physical /	Chemical Characteristics		
Boiling Point	Specific Gravity (H ₂ O=1)	,	
N.A.	7.11	N.A.	
Vapor Pressure (mm Hg) N.A.	Melting Point	N.A.	
Vapor Density (AIR=1) N.A.	Evaporation Rate (Butyl Acetate)	N.A.	
Solubility in Water N.A.			
Appearance and Odor	Cylindr	rical Shape, odorless	
Section IV – Hazard	Classification		
Classification N.A.			



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Section V	– Reactivit	v Data					
Stability	Unstable		Conditio	ns to Avoid			
	Stable						
	Stable	X					
Incompatibility (Materials to Avoi	d)	1				
Hazardous Deco	mposition or Bypr	roducts					
Hazardous	May Occur		Conditio	ns to Avoid			
Polymerization	•		Conditio	ns to rivola			
	Will Not Occur	X					
	1	1	1				
Section VI	- Health H	azard Data					
Route(s) of		Inhalation?		Skin?		Ingestion?	
Entry			N.	A.		N.A.	N.A.
Health Hazar	d (Acute and C	Chronic) / Toxio	clogical	information			
In case of	of electrolyte leak	age, skin will be ito	chy when c	contaminated with electron	olyte.		
In conta	ct with electrolyte	can cause severe i	rritation a	nd chemical burns.			
Inhalatio	on of electrolyte v	apors may cause ir	ritation of	the upper respiratory tra	ct and l	ungs.	
Section VI	I – First Aid	d Measures					
First Aid Prod	cedures						
				tin, wash with plenty of			
If electrolyte comes into contact with eyes, wash with copious amounts of water for fifteen (15) minutes, and contact a physician.							
If electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated area.							
Section VI	II - Fire and	d Explosion	Haza	rd Data			
Flash Point (Met		Ignition Temp.		Flammable Limits	L	EL	UEL
N.	A.	N.A.		N.A.		N.A.	N.A.
Extinguishing M	edia						
Carbon	Dioxide, Dry Che	mical or Foam exti	nguishers				
Special Fire Figh	nting Procedures						
N.A.							
Unusual Fire and	Explosion Hazar	ds					
Do not dispose of battery in fire - may explode.							
Do not s	short-circuit batter	y - may cause burr	ıs.				



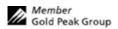
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Section IX	- Accidental Release or S	Spillage	
	aken in Case Material is Released	, ,	
Batteri	ies that are leakage should be handled with	rubber gloves.	
Avoid	direct contact with electrolyte.		
Wear 1	protective clothing and a positive pressure S	Self-Contained Breathing Apparatus (SCBA).	
Section X	 Handling and Storage 	_	
	and storage advice		
Batte	eries should be handled and stored carefully	y to avoid short circuits.	
		al objects to be mixed with stored batteries.	
	er disassemble a battery.		
	not breathe cell vapors or touch internal mat	terial with bare hands.	
The		th temperature ,the maximum temperature allowed is 60	0 for a short period during the shipment,
	– Exposure Controls / Per	rson Protection	
Occupational Exp		STEP	
	N.A.	N.A.	
Respiratory Prote	ection (Specify Type) N.A.		
Ventilation	Local Exhausts	Special	
	N.A.	N.A.	
	Mechanical (General)	Other	
	N.A.	N.A.	
Protective Glove	s	Eye Protection	
N.A.		N.A.	
Other Protective	Clothing or Equipment		
	N.A.		
Work / Hygienic	Practices N.A.		
Section XI	I – Ecological Information		
	N.A.		
Section XI	II – Disposal Method		
Dispose of	f batteries according to government regulati	ions	





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Section XIV – Transportation Information

In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in "strong outer packaging" that prevents spillage of contents. All original packaging for GP Carbon Zinc batteries has been designed to be compliant with these regulatory concerns.

Carbon Zinc batteries (sometimes referred to as "Dry cell" batteries) are not listed as dangerous goods under the IATA Dangerous Goods Regulation 52 Edition 2011, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). These batteries are not subject to the dangerous goods regulations provided they meet the requirements contained in the following special provisions.

Regulatory Body	Special Provisions
ADR	295 - 304, 598
IMDG	UN 3028 Provisions 295 - 304
UN	UN 3028 Provisions 295 - 304
US DOT	49 CFR 172.102 Provision 130
IATA	A123
ICAO	UN 3028 Provisions 295 - 304

All GP Carbon Zinc batteries are packed in such a way to prevent short circuits or the generation dangerous quantities of heat and meet the special provisions listed above. In addition, the IATA Dangerous Goods Regulations and ICAO Technical Instructions require the words "not restricted" and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued.

Non-dangerous goods.

Such battery have been packed in inner packaging in such a manner as to effectively prevent short circuit and movement that could lead to short circuit.

Section XV – Regulatory Information

Special requirement be according to the local regulatories.

Section XVI – Other Information

The data in this Material Safety Data Sheet relates only to the specific material designated herein.

Section XVII - Measures for fire extinction

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

Fire fighters should wear self-contained breathing apparatus.